

Appln SN: 09/921,992
Response to Office Communication mailed 05/26/2004
Art Docket: REN-00-084-US

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (canceled)

2. (currently amended) ~~The A substantially purified nucleic acid molecule of claim 1, that encodes a protein comprising an amino acid sequence consisting of SEQ ID NO: 50, wherein said protein is operably linked to a chloroplast transit peptide [[-]] encoding sequence.~~

3. (canceled)

4. (currently amended) ~~The substantially purified nucleic acid molecule of claim [[1]] 2, wherein said nucleic acid molecule further comprises: (A) a promoter; and (B) a heterologous nucleic acid molecule that encodes an amino sequence selected from the group consisting of SEQ ID NO[[s]]: 4 and 48 through 50.~~

5. (original) A transformed cell comprising the nucleic acid molecule of claim 4.

6. (withdrawn) An antibody capable of specifically binding a protein comprising an amino acid sequence selected from the group consisting of SEQ ID NOS: 4, 48 and 49.

7. (original) A transgenic plant comprising the nucleic acid molecule of claim 4.

8. (currently amended) Seed derived from [[a]] ~~the transgenic plant of claim 7, wherein the seed comprises the nucleic acid molecule of claim 4.~~

9. (currently amended) A method of producing a transgenic plant having a seed with an altered isoprenoid compound level comprising: (A) transforming ~~a~~ the plant with a nucleic acid molecule to produce [[a]] ~~the~~ transgenic plant, wherein the nucleic acid molecule encodes a protein with an amino acid sequence selected from the group consisting of SEQ ID NO[[s]]: [[4]] and 48[[[-]]]50; and (B) growing the transgenic plant.

10. (withdrawn) The method of claim 9 wherein said nucleic acid molecule is in an antisense orientation.